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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/822,668	KIMURA ET AL.			
		Examiner	Art Unit			
		VENKATESH HALIYUR	2476			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on <u>21 Se</u>	entember 2009				
•	This action is FINAL . 2b) \square This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) 🖂	Claim(s) <u>1-27 (calims 2-3,6,11-12,15,20-21,24</u>	are canceled) is/are pending in the	ne application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
'=	Claim(s) <u>1,4-5,7-10,13-14,16-19,22-23,25-27</u> is	s/are rejected.				
·	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/or	election requirement.				
	on Papers					
9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 13 April 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.						
10)23		· · · · · · · · · · · · · · · · · · ·				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	inder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* S Attachmen	see the attached detailed Office action for a list of the attached of the attached of the attached Office action for a list of the attached of the attached Office action for a list of the attached Office action for a list of the attached of	of the certified copies not receive	d.			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Tuper No(s)/Mail Date Statement(s) (PTO/SB/08) Statement(

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DETAILED ACTION

1. The amendment filed on 09/21/2009 has been considered. However amendments necessitated new ground(s) of rejection using a newly found reference. Therefore the finality of the office action communicated via previous office action has been withdrawn. Rejection follows.

2. Claims 1-27 is pending in the application. Claims 2-3, 6, 11-12, 15, 20-21, 24 are canceled.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly
 - claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1,4-5,7-10,13-14,16-19,22-23,25-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In independent claims 1, 10, 19, the limitations as recited (reproduced herewith) do not clearly indicate the functionality prior to and following the condition where a loop-back transmission mode is set is not established in the limitations before and after a first packet and the second packet are transmitted (see pages 13-17,

Figs 2-3) and therefore is indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Therefore appropriate corrections are required to independent claims 1, 10, 19 and dependent claims 4-5, 7-9, 13-14, 16-18, 22-23, 25-27.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1,4-5,7-8,10,13-14,16-17,19,22-23,25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burwell et al [US Pat: 5,818,842] in view of Oohashi et al. [US Pub: 2001/0021173].

Regarding claim 1, Burwell et al in their invention of "Transparent Interconnector of LANs by an ATM Network" disclosed an ATM (Asynchronous Transfer Mode) bridge device (item 6 of Fig 1) to which an ATM network (items 1a-1c of Fig 1) and a layer 2 network (items 9-11,14 of Fig 1) are connected (col 4, lines 22-38), comprising: a first learning unit (server, item 4 of Fig 4) item to learn a transmitter address of a packet input from said ATM network and information about a transmission path through which said packet had been transmitted and to judge a destination of said packet based on a result from the learning (col 4, lines 49-61), a second learning unit (ridge, item 6 of Fig

1) to learn a transmitter address of a packet input from said ATM network and information about a transmission path to which said packet is to be output (col 7, lines 29-34); and a packet scrapping judging unit to compare said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted with said transmitter address of said packet learnt by said second learning unit and information about said transmission path to which said packet is to be output (ridge packet filtering, item 6 of Fig 1, col 8, lines 15-24), wherein, when a first packet is transmitted from a first device on the ATM network side to a second device on said ATM network side (communication between ATM user devices, col 3, lines 6-25), a loop-back transmission mode is set to said first packet to be received by said second device (Loopback type code set in the cells, col 6, lines 32-44), wherein, when a second packet is transmitted by a broadcast method from a first device (broadcast server, col 5, lines 4-16) on said layer 2 network side (Ethernet side, item 23 of Fig 4, col 3, lines 11-25) to a plurality of devices on said ATM network side (ATM layer on switch side, item 30 of Fig 4), a loop-back transmission mode is set to said second packet to be received by a said plurality of devices on said ATM network side (col 3, lines 17-25, col 6, lines 45-54,col 9, lines 35-54). Burwell disclosed a method for verifying the source address, destination address and the protocol type of the packet to either drop or forward the packet at the ridge (col 8, lines 25-31, col 11 lines 50-60, col 12, lines 6-15), but fails to disclose if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been

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transmitted are matched with said transmitter address of said packet learnt by said second learning unit and information about said transmission path to which said packet is to be output, to scrap said packet. However Oohashi et al. disclosed a method for comparing the address of a packet received from a first routing station (item 8 of Fig 1) and information about the transmission path (item 12 of Fig 1) through which packet had been transmitted are matched learnt and matched by the second routing station (item 9 of Fig 1) to either discard or receive the packet (routing decisions made by the judging means and loop-back mode set to ON/OFF, item 1 of Fig 1, para 0039-0044 and 0050-0054, Figs 1-4). Therefore it would have been obvious for one of the ordinary skill in the art at the time the invention was made to use the method of comparing the address of a packet received from a first routing station and information about the transmission path through which packet had been transmitted are matched and learnt by the second routing station to either drop or forward the packets arriving at the bridge device as taught by Oohashi et al in the system of Burwell et al to verify if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted are matched with said transmitter address of said packet learnt by said second learning unit and information about said transmission path to which said packet is to be output, to scrap said packet. One is motivated as such in order to improve the performance of the ATM bridge device for transmitting packets over WAN network by comparing the address of a packet received from a first routing station and information about the

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transmission path through which packet had been transmitted are matched and learnt by the second routing station to control the packets arriving at the bridge device.

Regarding claim 10, Burwell et al disclosed a loop detecting method for detecting loop formed in an ATM bridge device (item 6 of Fig 1/Fig14, col 6, lines 45-54) to which an ATM network (items 1a-1c of Fig 1) and a layer 2 network (items 9-11,14 of Fig 1) are connected (col 4, lines 22-38), comprising: a first learning step (server, item 4 of Fig 4) item to learn a transmitter address of a packet input from said ATM network and information about a transmission path through which said packet had been transmitted and to judge a destination of said packet based on a result from the learning (col 4, lines 49-61), a second learning step (ridge, item 6 of Fig 1) to learn a transmitter address of a packet input from said ATM network and information about a transmission path to which said packet is to be output (col 7, lines 29-34); and a packet scrapping judging step to compare said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted with said transmitter address of said packet learnt by said second learning step and information about said transmission path to which said packet is to be output (ridge packet filtering, item 6 of Fig 1, col 8, lines 15-24). Burwell disclosed a method for verifying the source address, destination address and the protocol type of the packet to either drop or forward the packet at the ridge (col 8, lines 25-31, col 11 lines 50-60, col 12, lines 6-15) and further disclosed wherein, when a first packet is transmitted from a first device on the ATM network side to a second device on said ATM network side (communication between ATM user devices, col 3, Application/Control Number: 10/822,668

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lines 6-25), a loop-back transmission mode is set to said first packet to be received by said second device (Loopback type code set in the cells, col 6, lines 32-44) and wherein, when a second packet is transmitted by a broadcast method from a first device (broadcast server, col 5, lines 4-16) on said layer 2 network side (Ethernet side, item 23 of Fig 4, col 3, lines 11-25) to a plurality of devices on said ATM network side (ATM layer on switch side, item 30 of Fig 4), a loop-back transmission mode is set to said second packet to be received by said plurality of devices on said ATM network side (col 3, lines 17-25,col 9, lines 35-54), but fails to disclose if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted are matched with said transmitter address of said packet learnt by said second learning step and information about said transmission path to which said packet is to be output, to scrap said packet. However Oohashi et al. disclosed a method for comparing the address of a packet received from a first routing station (item 8 of Fig 1) and information about the transmission path (item 12 of Fig 1) through which packet had been transmitted are matched learnt and matched by the second routing station (item 9 of Fig 1) to either discard or receive the packet (routing decisions made by the judging means and loop-back mode set to ON/OFF, item 1 of Fig 1, para 0039-0044 and 0050-0054, Figs 1-4). Therefore it would have been obvious for one of the ordinary skill in the art at the time the invention was made to use the method of comparing the address of a packet received from a first routing station and information about the transmission path through which packet had been transmitted are matched and learnt by the second routing station to either drop or

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forward the packets arriving at the bridge device as taught by Oohashi et al in the system of Burwell et al to verify if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted are matched with said transmitter address of said packet learnt by said second learning unit and information about said transmission path to which said packet is to be output, to scrap said packet. One is motivated as such in order to improve the performance of the ATM bridge device for transmitting packets over WAN network by comparing the address of a packet received from a first routing station and information about the transmission path through which packet had been transmitted are matched and learnt by the second routing station to control the packets arriving at the bridge device.

Regarding claim 19, Burwell et al disclosed an ATM (Asynchronous Transfer Mode) bridge device (item 6 of Fig 1) to which an ATM network (items 1a-1c of Fig 1) and a layer 2 network (items 9-11,14 of Fig 1) are connected (col 4, lines 22-38), comprising: a first learning means (server, item 4 of Fig 4) item to learn a transmitter address of a packet input from said ATM network and information about a transmission path through which said packet had been transmitted and to judge a destination of said packet based on a result from the learning (col 4, lines 49-61), a second learning means (ridge, item 6 of Fig 1) to learn a transmitter address of a packet input from said ATM network and information about a transmission path to which said packet is to be output (col 7, lines 29-34); and a packet scrapping judging means to compare said transmitter address of said packet input from said ATM network and information about

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said transmission path through which said packet had been transmitted with said transmitter address of said packet learnt by said second learning means and information about said transmission path to which said packet is to be output (ridge packet filtering, item 6 of Fig 1, col 8, lines 15-24). Burwell disclosed a method for verifying the source address, destination address and the protocol type of the packet to either drop or forward the packet at the ridge (col 8, lines 25-31, col 11 lines 50-60, col 12, lines 6-15) and further disclosed wherein, when a first packet is transmitted from a first device on the ATM network side to a second device on said ATM network side (communication between ATM user devices, col 3, lines 6-25), a loop-back transmission mode is set to said first packet to be received by said second device (Loopback type code set in the cells, col 6, lines 32-44) and wherein, when a second packet is transmitted by a broadcast method (broadcast server, col 5, lines 4-16) from a first device on said layer 2 network side (Ethernet side, item 23 of Fig 4, col 3, lines 11-25) to a plurality of devices on said ATM network side (ATM layer on switch side, item 30 of Fig 4), a loop-back transmission mode is set to said packet to be received by said plurality of devices on said ATM network side (col 3, lines 17-25, col 6, lines 45-54, col 9, lines 35-54), but fails to disclose if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted are matched with said transmitter address of said packet learnt by said second learning means and information about said transmission path to which said packet is to be output, to scrap said packet. However Oohashi et al. disclosed a method for comparing the address of a packet received from

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a first routing station (item 8 of Fig 1) and information about the transmission path (item 12 of Fig 1) through which packet had been transmitted are matched learnt and matched by the second routing station (item 9 of Fig 1) to either discard or receive the packet (routing decisions made by the judging means and loop-back mode set to ON/OFF, item 1 of Fig 1, para 0039-0044 and 0050-0054, Figs 1-4). Therefore it would have been obvious for one of the ordinary skill in the art at the time the invention was made to use the method of comparing the address of a packet received from a first routing station and information about the transmission path through which packet had been transmitted are matched and learnt by the second routing station to either drop or forward the packets arriving at the bridge device as taught by Oohashi et al in the system of Burwell et al to verify if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted are matched with said transmitter address of said packet learnt by said second learning unit and information about said transmission path to which said packet is to be output, to scrap said packet. One is motivated as such in order to improve the performance of the ATM bridge device for transmitting packets over WAN network by comparing the address of a packet received from a first routing station and information about the transmission path through which packet had been transmitted are matched and learnt by the second routing station to control the packets arriving at the bridge device.

Regarding claims 4, 13, 22, Burwell et al disclosed wherein, when a packet is transmitted by a broadcast method from a first device on said ATM network side to

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other devices on said ATM network side (col 3, lines 11-25, col 5, lines 34-37) a loop-back transmission mode is set to said packet to be received by a second device on said ATM network side (col 6, lines 45-54).

Regarding claims 5, 14, 23, Burwell et al disclosed, wherein, when a packet is transmitted by a broadcast method from a first device on said ATM network side to other devices on said ATM network side (col 3, lines 11-25, col 7, lines 44-50), a loop-back transmission mode is set to said packet to be received by a second device and a third device on said ATM network side (col 6, lines 45-54).

Regarding claim 7, 16, 25 Burwell et al disclosed The ATM bridge device according to claim 1, wherein, when a packet is transmitted from a first device on said ATM network side to a first device on said layer 2 network side (Ethernet side, item 23 of Fig 4, col 3, lines 11-25), a loop route is formed on said layer 2 network side (col 3, lines 17-25).

Regarding claims 8, 17, 26, Burwell et al disclosed wherein logical transmission paths (virtual paths) to be used for bidirectional connection in said ATM network are different from each other (col 10, lines 10-12, col 6, lines 32-35).

6. Claims 9, 18, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burwell et al [US Pat: 5,818,842] and Oohashi et al. [US Pub: 2001/0021173] further in view of Rodrig et al. [US Pat: 6,256,314].

Regarding claims 9, 18, 27, Burwell et al disclosed the ATM bridge device (item 6 of Fig 1) that bridges ATM network and LAN (col 4, lines 22-38) and Oohashi

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disclosed a redundant route controlling routing protocol method (para 0009-0011), but both Burwell and Oohashi fail to disclose a VRRP (Virtual Router Redundancy Protocol) is applied in said ATM network and said layer 2 network. However, Rodrig et al disclosed a redundancy routing mechanism involving a VRRP (Virtual Router Redundancy Protocol) when multiple routers back each other up in a network for the purposes of achieving routing redundancy in the network (col 8, lines 8-23). Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to use the method of a redundancy routing mechanism involving a VRRP as taught by Rodrig et al in the system of Burwell et al as modified by Oohashi to include a VRRP (Virtual Router Redundancy Protocol) is applied in said ATM network and said layer 2 network in the ATM bridge device. One is motivated as such in order to use VRRP mechanism in the network to achieve a seamless routing ability in the ATM bridge device in the event of a change in the network topology.

Response to Arguments

7. Applicant's argument, see remarks filed on 09/21/2009 for claims 1-27 have been fully considered.

With respect to applicant's argument, see remarks filed on 09/21/2009 for claims 1,10,19 that references fail to disclose "a packet scrapping judging unit" wherein "if said transmitter address of said packet input from said ATM network and information about said transmission path through which said packet had been transmitted are matched

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with said transmitter address of said packet learnt by said second learning unit and information about said transmission path to which said packet is to be output, to scrap said packet" as claimed in the amended independent claims. However the examiner respectfully disagrees as Burwell disclosed a method for verifying the source address, destination address and the protocol type of the packet to either drop or forward the packet at the ridge (ridge packet filtering, item 6 of Fig 1, col 8, lines 15-24) and Oohashi et al. disclosed a method for comparing the address of a packet received from a first routing station (item 8 of Fig 1) and information about the transmission path (item 12 of Fig 1) through which packet had been transmitted are matched learnt and matched by the second routing station (item 9 of Fig 1) to either discard or receive the packet (routing decisions made by the judging means and loop-back mode set to ON/OFF, item 1 of Fig 1, para 0039-0044 and 0050-0054, Figs 1-4). Therefore obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art.

In response to applicant's argument for independent claims 1, 10, 19, that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies i.e., the limitations as recited (reproduced herewith) do not indicate the functionality prior to and following the condition where a loop-back transmission mode is set is not established in the limitations before and after a first packet and the second packet are transmitted (Please refer to the specification see

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pages 13-17, Figs 2-3) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. Therefore the examiner respectfully suggests applicants to amend the claims accordingly.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616.

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The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached @ (571)-272-3795. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the

group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

/Venkatesh Haliyur/

Examiner, Art Unit 2476

/Ayaz R. Sheikh/

Supervisory Patent Examiner, Art Unit 2476